SCF-ER-6/125-14

Er-Doped Single Clad Fiber

Erbium-doped fibers are doped active fibers used for operation around 1550 nm. They are perfect for the design of erbium-doped optical amplifiers (EDFA) for telecommunication in the C and L band and sensing applications such as LiDAR.

Features & Benefits

- High absorption
- High quantum conversion efficiency lowers pump power requirements, reducing overall system costs
- Low background losses

Applications

- Telecommunications
- LiDAR

Related Products

- G.652
  Standard single mode fiber for telecom
- SCF-UN-8/125-14
  Matched single-clad fiber

Specifications

Optical

Background Loss @1200 nm (dB/km)	≤ 20
Core Absorption @ 1535 nm (dB/m)	45 ± 5
Core Absorption @ 980 nm (dB/m)	≥ 10
Cutoff Wavelength (nm)	1300 ± 100
MFD @ 1550nm (µm)	8 ± 1
Operating Wavelength (nm)	Typ. 1575 to 161

Geometrical & Mechanical

Cladding diameter (µm)	125 ± 1
Coating Diameter (µm)	245 ± 10
Core Diameter (µm)	Typ. 6
Core/Cladding Concentricity Error (µm)	≤ 1
Proof Test (kpsi)	<= 100

Environmental

Storage Temperature (°C)	-40 to +85